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Corporación de Profesionales en Zootecnia SA de CV

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EQUIPO PARA SEGURIDAD ESPECIALIZADA

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Life Safety Systems

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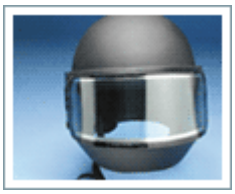
1. Manta Supresora: El costo variara dependiendo del tamaño.

APLICACIONES: LAS MANTAS SUPRESORAS LSSI ESTAN EQUIPADAS CON UNA FABRICACION ESPECIAL QUE AYUDA AL BLOQUEO O MINIMIZACION DEL TRANSMISOR QUE BUSCA LA RECEPCION, DEL IED PARANDO LA EXPLOSION.
CARACTERISTICAS: 60 Db
TAMAÑO: 5 X 5 ft
NIVEL: 3

2. Traje para técnico Explosivista: Se deberá calcular el número de accesorios necesarios, para cada equipo.



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2.- (A) Traje para Técnico Explosivista:

TRAJE P/EXPLOSIVISTA:

EOD Bomb Disposal Suit
Item 07.01.02

Overview

Currently in service with bomb disposal teams throughout the world, the EOD Bomb Suit combines state-of-the-art materials and design to deliver the highest level of protection with maximum comfort and flexibility. This comprehensive EOD protection system includes all that the agent needs in his/her proximity, with ballistic garments that are flexible and comfortable for prolonged use, a ventilated ballistic helmet, shoe and hand protection, and a communication system.

Design & Construction

Fire-resistant NOMEX®
Jacket with attached collar
Adjustable, quick-release trousers
Armored steel blast plates: Chest, Throat, Groin
Helmet with built-in fan and visor
Integral speakers, ambient sound and microphone
Hand protectors, Spine protector, Overshoes
Carrying bags
Power supply: 12V 7Amp/hr (one outlet dedicated to the helmet ventilation & demisting)
Colors: OD Green, Navy Blue
Sizes: Small, Medium, Large
Conforms to Mil Std 1472 re size and fitting
Weight: approx. 33 lbs (15 kg) without blast plates; 58 lbs (26 kg) with blast plates
Ballistic Protection
Protection performance figures are for the Stanag 2920 17 grain (1.1gm) (Mil Std 662) fragment simulator:
Front Collar: 1968 ft/sec (600 m/s) V50; Back Collar: 1476 ft/sec (450 m/s) V50
Jacket Front: 1968 ft/sec (600 m/s) V50; Jacket Rear: 1476 ft/sec (450 m/s) V50
Sleeve Front: 1837 ft/sec (560 m/s) V50; Sleeve Rear: 1476 ft/sec (450 m/s) V50
Front Trousers with Groin Protection: 2263 ft/sec (690 m/s) V50
Front Thigh: 2263 ft/sec (690 m/s) V50; Front Shin: 2034 ft/sec (620 m/s) V50
Rear Trousers: 1476 ft/sec (450 m/s) V50; Back Legs: 1476 ft/sec (450 m/s) V50
Hand Covers: 1476 ft/sec (450 m/s) V50; Shoe Covers: 1476 ft/sec (450 m/s) V50•
Protection provided with Blast Plates attached
to the front of the suit, Type 1 V50:
Collar: 2788 ft/sec (850 m/s)
Chest: 4593 ft/sec (1400 m/s)
Groin: 4593 ft/sec (1400 m/s)
Protection provided with Blast Plates attached
to the front of the suit, Type 2 V50:
Collar: 2788 ft/sec (850 m/s)
Chest: 5249 ft/s (1600 m/s)
Groin: 5249 ft/s (1600 m/s)

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2.- (A) Traje para Técnico Explosivista:

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2.- (B) Traje para Técnico Explosivista:

TRAJE P/TECNICO EXPLOSIVISTA

EOD Bomb Suit Accessories & Options

•

EOD Bomb Helmet

First-line protective helmet for the bomb-disposalprofessional. Equipped with built-in headset andmicrophone. Unique demisting ventilation systemprovides comfort for prolonged and strenuous use.

Design & Construction

Helmet construction is a proprietary compositesystem designed for maximum ballistic protectionShell: molded GRP skin with electrometric AramidCore

Harness: fully adjustable three-point suspensionharness; webbing and ballistic nylon constructionBallistic visor: hardened acrylic/polycarbonateLaminate

Communication set: two headphones, onemicrophone, extension lead (can be attached toany VHF radio transceiver)

Air ventilation system: can be used with acanister configuration (NBC or chemical)Ventilation system is designed to direct the

flow of forced fresh air over the top of thehelmet liner, across the visor and down over theoperator's face ensuring efficient demisting anda clear view

Weight: 10 lbs (4.7 kg)

Ballistic Performance

Helmet: V-50 - 1968 ft/sec (600 m/sec), Stanag

17 grain (1.1) fragment simulator

Visor: V-50 - 2296 ft/sec (700 m/se

•**Optional Chemical Undergarment**

Undergarment barrier protects the wearer from

hazardous chemicals.

Optional Cooling Suit

Offers a safe and cool environment for thoseworking in extreme heat; ideally suited forprofessionals involved in bomb disposal. The suit

uses ice water to remove body heat and requiresno hazardous pressurized canister or toxic coolingagents. Machine washable, fire-resistant NOMEX®.

Optional Mine Boot

Comfortable, practical and rugged boot designedfor advanced protection, maximum mobility anddurability in varied climates and terrains.

Optional EOD Protective Gloves

Protective gloves for bomb disposal units.

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3.-(A) TRAJE P/ INSPECCION

The EOD Search Suit protects the agent from all types of high-velocity fragments, overpressure and intense heat in case of a close-proximity explosive detonation, without restricting movement.

The suit can also be used as a first entry tactical suit. The main advantages of this suit are its level of protection combined with lightweight, flexibility, ease of putting on, and comfort in wearing for long time periods of time. The suit comes in a carrying bag for travel.

Parts include:
. Level IIIA Jacket, Trousers & Sleeves. V-50 1450 up to 1950 fps will be determined according to customer's requirements
• Level III - 10" X 12" spectra plate.
• Level IIIA - helmet V-50 2100-fps (9mm only).
• Level II Ballistic face shield V-50 1200fps.
• NOMEX Carrier (Midnight Blue or OD Green)
• Groin Protector
• Available in two sizes
• KevlarR 129 (All except face shield & insert)
• Insert 100% SpectraR
• Face Shield - Lexan & Polycarbonate

General:
• Net weight: 33lbs (16kgs)
• Packed weight: 70 lbs (32kgs)
• Warranty Period: 5 years (ballistic material)
EOD Search Suit protects the agent from all types of high-velocity fragments, overpressure and intense heat in case of a close-proximity explosive detonation, without restricting movement.

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3.-(B) TRAJE P/ INSPECCION
EOD Protective Search Suit
Item 07.01.01
Overview
The Search suit protects the wearer in case of close-proximity explosive detonation. It is lightweight yet highly protective, easy to put on, and comfortable for prolonged use. With minimal restriction of movement, the suit protects the EOD agent from high-velocity fragments, overpressure and intense heat; it also functions as a first entry tactical suit.

The Suit includes a hard armor ballistic insert plate, a ballistic helmet with face shield and a carry bag for transport and storage.

Design & Construction
Ballistic jacket, trousers & sleeves - Kevlar® 129
10” X 12” (25.4 x 30.5 cm) plate insert- Spectra® or Ceramic
Ballistic helmet
Ballistic face shield - Lexan & Polycarbonate
NOMEX® flame-resistant carrier
Groin protector
Carry bag
One size fits all; custom sizing available.
Colors: Midnight Blue, Olive Drab Green
•
Ballistic Protection
According to NIJ-Standard 0101.04: National Institute of Justice, Ballistic Resistance of Personal Body Armor
Jacket, trousers & sleeves - Level IIIA V-50 1450 up to 1950 fps (442 up to 594 m/s)
Plate insert - Level III Spectra® or Level IV Ceramic
Helmet - Level IIIA V-50 (9mm only) 2100 fps (640 m/s)
Ballistic face shield - Level II V-50 1200 fps (365 m/s)

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3.-(B) TRAJE P/ INSPECCION

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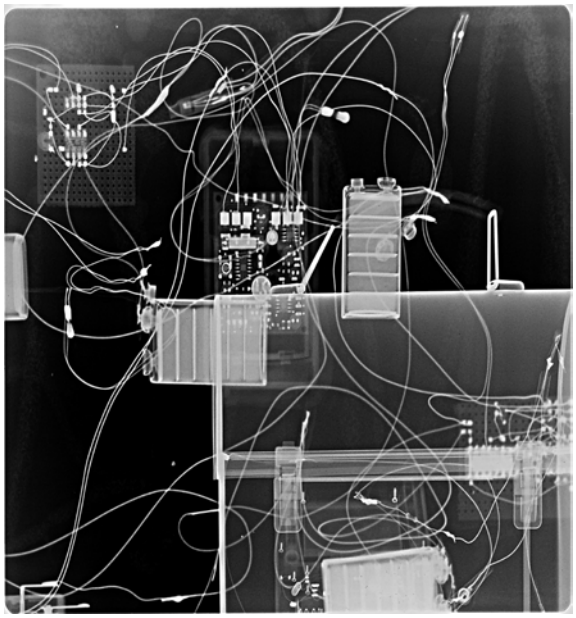
4. Sistema de Rayos X portátil para inspección: el costo dependerá del número de accesorios que se necesiten.

Specifications
Dimensions (WxDxH): 17" x 17" x 16.5"
Weight: 37 lbs.
Electrical: 115V, 60 Hz
Laser Classification: Class 1 Laser Product. Compliance with FDA HSS 21 CFR 1040.10 and IEC 60825-1
Imaging Media: Phosphor Storage Plates: 8"x10", 10"x12", 7" x 17" (coming soon)
System Includes: Power Cord and Computer Connector Cord, soft case
Software: Tigerview certified imaging software for acquisition, viewing and storage
Environmental Operating: 0 to 104 degrees F, Storage and Transport -21 to 130 degrees
Humidity 5 to 95% RH, non-condensing
Soft Transit Case Scanner provided with a soft travel case for storage
Minimum Computer Requirements.**CPU Speed**: 1.66 GHz
Operating System: Windows 2000 Service Pack 4, Windows XP Professional Service Pack 1a or later.**RAM**: 512 MB
Hard Drive: 60GB (2GB free for image acquisition, the rest for program files and image storage)- **CD ROM Drive**: 48X speed or higher
Monitor: 1024 x 786 resolution or higher: SVGA 17", contrast ratio 450:1, .22 dot pitch capability. **Video Display Adapter**: 128 MB RAM
Keyboard, Mouse: Standard. **USB Port**: Must be USB 1.1
Preferred Configuration
CPU Speed: 2.8 GHz Pentium IV or higher
Operating System: Windows 2000 Professional with Service Pack 4 or later, or Windows XP Prof with Service Pack 2. **Ram**: 4GB
CD ROM Drive: CD-RW 52 x 24 x 52
Hard Drive: 120 GB (2 GB free for image acquisition, the rest for program files and image storage
Monitor: 1024 x 786 resolution or higher: 17" or larger, contrast ratio 1000:1 or higher, .22 dot pitch capability. **Video Display Adapter**: 256 MB RAM
Keyboard/Mouse: Standard
USB Port: USB 2.0
Backup Device: Recommende

La imagen que se muestra a continuación le proveerá una idea clara del detalle del sistema.

Bomb X-ray image



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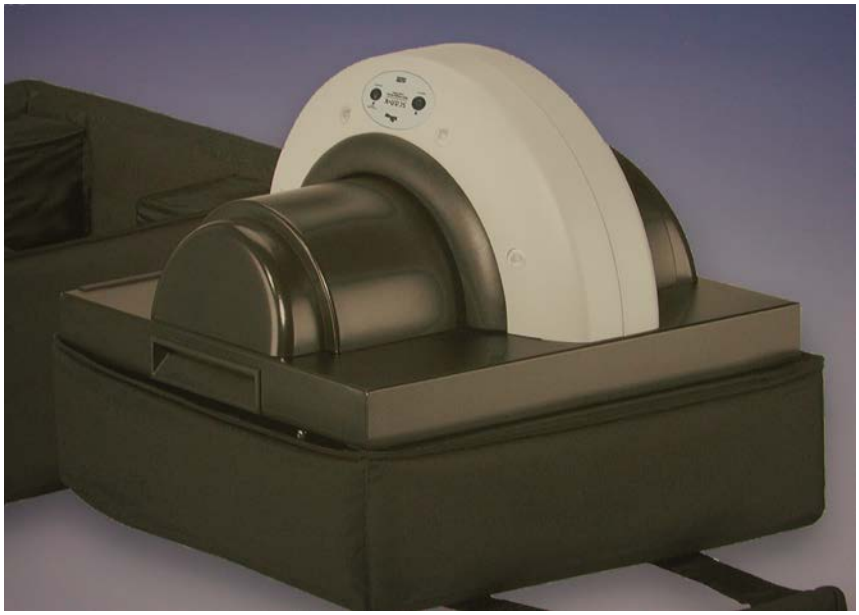

Bomb X-ray System

5.Vehículo Jammer: El precio estará determinado por el nivel de blindaje que se instale en el vehículo para protegerlo de la onda expansiva.

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6. Vehículos de Respuesta: Se deberá considerar en el costo el modelo pequeño o el grande , así como el equipo que se desee instalar .En el precio del vehículo no esta incluido el precio del equipo.

Sprinter style Bomb Truck

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Mini Bomber

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7. Vehículo Puesto de Mando: Este tipo de vehículos son únicos por que las dos cajas están hechas de una sola pieza. El uso principal de este tipo de sistemas de comunicación, son como centros de comando, lo encontramos en estándar y largo que tiene capacidad para 8 personas, cocineta baño etc., el costo dependerá del equipo que se instale en él.

Full sized Command Vehicle

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8. Vehículo de Vigilancia: Este es un ejemplo del interior de un vehículo de vigilancia y video dentro de una van.

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Anti-Terrorism Safety Features

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9. GBK: El costo dependerá del tamaño del mismo.

G B K
Ground Bomb Killer
international patent pending

NEW ANTI-BLAST PROTECTION

Technical caracteristics — **Caractéristiques techniques** — **Características técnicas**

G B K	APPLICATIONS	*Length* *Longueur* *Longitud*	*Width* *Largeur* *Anchura*	*Height* *Hauteur* *Altura*	*Weight* *Poids* *Peso*
MEDIUM *Stanag 2920* *V50 – 665 m/s*	*hand luggage* *bagage à main* *equipaje de mano*	1.47 ft 45 cm	0.98 ft 30 cm	1.47 ft 45 cm	29 pds 13 kg
MEDIUM + *Stanag 2920* *V50 – 690 m/s*	*hand luggage* *bagage à main* *equipaje de mano*	1.47 ft 45 cm	0.98 ft 30 cm	1.47 ft 45 cm	46 pds 21 kg
MEDIUM S+ *Stanag 2920* *V50 – 890 m/s*	*hand luggage* *bagage à main* *equipaje de mano*	1.47 ft 45 cm	0.98 ft 30 cm	1.47 ft 45 cm	66 pds 30 kg
STANDARD MINI *Stanag 2920* *V50 – 665 m/s*	*luggage* *valise* *equipaje*	2.94 ft 90 cm	1.31 ft 40 cm	1.96 ft 60 cm	66 pds 30 kg
STD MINI "S" *Stanag 2920* *V50 – 820 m/s*	*luggage* *valise* *equipaje*	2.94 ft 90 cm	1.31 ft 40 cm	1.96 ft 60 cm	105 pds 48 kg
STANDARD *Stanag 2920* *V50 – 665 m/s*	*luggage* *valise* *equipaje*	2.94 ft 90 cm	1.31 ft 40 cm	2.45 ft 75 cm	77 pds 35 kg
STD "S" *Stanag 2920* *V50 – 820 m/s*	*luggage* *valise* *equipaje*	2.94 ft 90 cm	1.31 ft 40 cm	2.45 ft 75 cm	123 pds 56 kg
LARGE *Stanag 2920* *V50 – 665 m/s*	*trolley* *caddy* *tranvía*	3.61 ft 110 cm	1.31 ft 40 cm	2.94 ft 90 cm	97 pds 41 kg
LARGE "S" *Stanag 2920* *V50 – 820 m/s*	*trolley* *caddy* *tranvía*	3.61 ft 110 cm	1.31 ft 40 cm	2.94 ft 90 cm	154 pds 70 kg

Ballistic level — **Niveau balistique** — **Nivel balístico** STANAG 2920 - V.50 = 665 m/s until 890m/s

IN DUTY ON THE 5 CONTINENTS - EN SERVICE SUR LES 5 CONTINENTS

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Les descriptions et caractéristiques des produits ne sont données qu'à titre indicatif et peuvent subir des modifications sans préavis.
Equipment descriptions and characteristics are given only as an indication and can undergo modifications without notice

10. Security Bag:

AIRLINE BAG

AIR MARSHAL EQUIPMENT

Security bag for loading and unloading guns in the aircraft

Sac de sécurité pour chargement et déchargement d'armes à bord d'un avion

Airline Bag	*Length* *Longueur*	*Width* *Largeur*	*Height* *Hauteur*	*Weight* *Poids*
STANDARD TYPE	21.6 ft 55 cm	7.9 ft 20 cm	11.8 ft 30 cm	9.9 pds 4,5 kg

Ballistic level :
NIJ 0101-04 IIIA
9 mm FMJ RN 124 gr 1430ft/s
44 Magnum JHP 240 gr 1430 ft/s
357 Magnum JSP 158gr 1430 ft/s
40 S&W FMJ 180gr 1055 ft/s

Niveau balistique :
NIJ 0101-04 IIIA
9 mm FMJ RN 124 gr 436 m/s
44 Magnum JHP 240 gr 436 m/s
357 Magnum JSP 158gr 436 m/s
40 S&W FMJ 180gr 322 m/s

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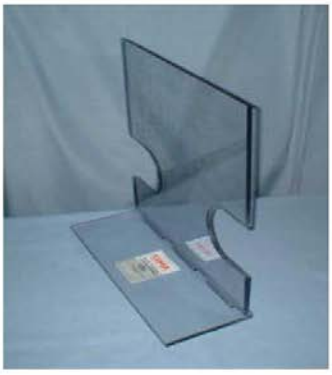
11. Letter Bomb.

LETTER BOMB PROTECTION

patent pending – brevet déposé

PERSONNAL ANTI BLAST EQUIPMENT

Security Screen for opening suspicious items



Ecran de sécurité pour manipulation et ouverture de colis supects

Protector Screen	*Width* *Largeur*	*Height* *Hauteur*	*Thickness* *Epaisseur*	*Weight* *Poids*
STANDARD TYPE	1.64 ft 50 cm	1.64 ft 50 cm	0.39 inch 1 cm	8.8 pds 3,5 kg

FRAGMENTATION LEVEL
STANAG 2920 V50 = 333 m/s

TENUE A LA FRAGMENTATION
STANAG 2920 V50 = 333 m/s

Letter Bomb Protection

LBP + Special gloves
made with Kevlar – fire resistant

LBP + Bio Bag
Biological protection

designed and patented equipments by SEMA

équipements développés et brevetés par SEMA

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12. Bio Bag.

BIO BAG
Patent Pending

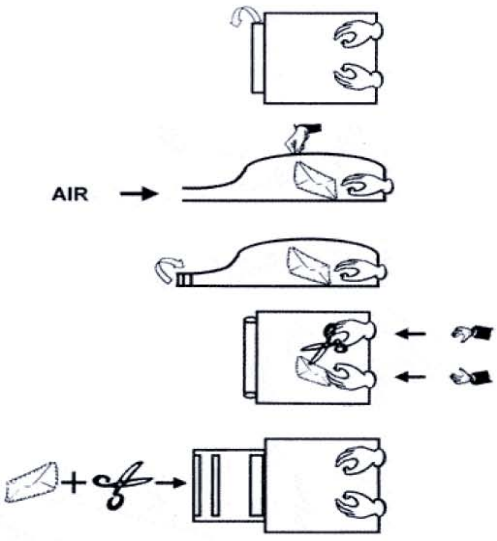
Anthrax-proof

OPEN YOUR MAIL SAFELY

REUSABLE PROTECTION CHAMBER

- microbe resistance
- oven-gloves

- size 2 feet x 2 feet
- easy to use



Temperature Resistance :
– 30°c to +120 °c , +4°F to 270°F

Mechanical characteristics :

Shore A hardeness din 53505	85
Tensile stress at break Mpa	55
Tensile stress at break % din 53455	500
Tear resistance N/mm din 53515	50

Instructions for usage Open the chamber, place the mail or parcel inside, close the chamber, open the mail by using oven-gloves, check the contents. If nothing abnormal, open the chamber and remove the mail. If contents are suspicious, don't open the chamber and call security.

References government, police, army, administrative offices, banks, medias, multinational companies, …

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13. Sky Marshall Bag.

S K B
Sky Marshall Bag
international patent pending

SKY MARSHALL EQUIPMENT

SPECIAL LIQUID EXPLOSIVE

tiroir ouvert drawer open

EQUIPEMENT DE SURETE AERIENNE

SPECIAL EXPLOSIFS LIQUIDES

poignée de transport
transportation hold

amortisseur absorber

The SKB is a new equipment for the sky marshall, such as a common bag with luggage cabin sizes and being able to contain the effects of a bomb realized with liquid explosives hidden in bottles or parts authorized during the boarding.

The SKB has two compartments, which could they even be separated to isolate several suspect items boarded on the same flight.

This equipment exists in several configurations.

Le SKB est un équipement pour les agents de sûreté aérienne, se présentant comme un sac ordinaire de la dimension d'un bagage cabine et pouvant contenir les effets d'une bombe réalisée avec des explosifs liquides dissimulés dans des bouteilles ou accessoires autorisés lors de l'embarquement aérien.

Le SKB dispose de deux compartiments, pouvant eux même être séparés afin d'isoler plusieurs contenants suspects se trouvant embarqués sur un même vol.

Cet équipement existe en plusieurs configurations.

SKB	*Length* *Longueur*	*Width* *Largeur*	*Height* *Hauteur*	*Weight* *Poids*
Extérieur SKB	22 in 55 cm	10 in 25cm	12 in 30 cm	39 pds 18 kg
Intérieur tiroir				
compartiment 1	4.33 in 11 cm	4.33 in 11 cm	4.33 in 11 cm	
compartiment 2	8.66 in 22 cm	4.33 in 11 cm	4.33 in 11 cm	

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14. FIRE WALL.

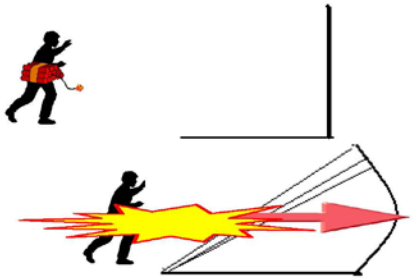
FIRE WALL
Patent Pending

BOMB ATTACK PROTECTION

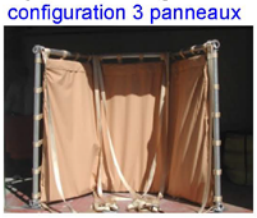
Official building
Bâtiment officiel
Hotel
Hôtel
Embassy
Ambassade
Museum
Musée

Business center
Centre de conférences
Sight Hall
Salle de spectacles
Airport
Aéroport
Worship place
Lieu de cultes

F W	*Length* *Longueur*	*Width* *Largeur*	*Height* *Hauteur*	*Weight* *Poids*
STANDARD TYPE	9.85 ft 3 000 cm	7.87in 20 cm	5.71 ft 1 740 cm	286 pds 130 kg



3 pannels configuration
configuration 3 panneaux



open dress up
habillage de la structure

Fragmentation level : **Stanag 2920 V50 = 820 m/s**
Horizontal Resistance up to 50 tonnes
Discreet Equipment – Easy installation

Fragmentation **Stanag 2920 V50 = 820 m/s**
Résistance horizontale de plus de 50 tonnes
Equipement discret - Installation simple

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Tech Hydro Robotics.

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15. ECM 601

Tech Hydro SARL

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F-78170 La Celle Saint Cloud

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pda electronics

ECM601
Reactive Blocker

- Blocks both GSM900 and GSM1800 phones
- Microprocessor based threat analysis
- Selective blocking of phone operations
- Automatic or Manual modes
- Resists Deployment Detection
- Only active in response to GSM activity
- Two transmit power settings – 100mW / 25mW

Product Overview

This ECM601 is designed to provide protection from bugging devices and other surveillance equipment which use GSM technology. Unlike normal blocking equipment which are active all the time and therefore are easy to detect, the ECM601 is a reactive device. The unit runs a threat analysis program in its internal processor which listens out for mobile phone activity. Once a valid GSM signature is detected the unit will react to the 'threat' in the manner it has been programmed to do. It can be set to 'block' only calls or both calls and network transmissions.

As the unit only transmits when a GSM transmission is detected it is almost impossible to detect that ECM601 units have been deployed, making these units suitable for protection in sensitive and covert locations.

Features

❑ **Settings**

You can set the ECM601's sensitivity and output to match the application.

Internal switches allow you to select the best detection range for protecting either small meeting rooms or much larger conference areas. Note that if a base station is close, the actual power transmitted by the phone can be very low, which will effect the sensitivity needed. If in doubt, use the maximum.

A small switch in the battery compartment also lets you set the protection range to match the application. Power options are 100mW (+20dBm) and 25mW (+14dBm).

The same switch lets you choose to block either all mobile activity or only calls. The 'calls only' function allows users to send and receive text messages but will not permit a call setup sequence to complete. In this mode an incoming call will briefly trigger ringing on the phone so that its presence may be detected audibly.

❑ **Indications**

When the unit has been switched on by a short push of the Power button, the Ready indicator will flash every 2 seconds.

Once the unit is triggered by a GSM signal, the Blocking indicator will flash rapidly initially that the unit is transmitting. If the flashing is continuous, the unit is blocking a call, whereas if it has small gaps in it, it is blocking network transmissions such as registrations or text messages.

To transmit the blocking signal manually, press and hold the Power button for at least one second, until there is a long flash on Ready.

If the Low battery indicator lights, the batteries should be replaced at once.

To turn the unit off, press and hold the Power button until all lights are out.

❑ **Using the ECM301**

The unit works by corrupting the control channel transmitted by a base station to a phone. As the ECM601 only has limited power, the actual range will depend on the strength of the base station's signal at the proposed location. The stronger the signal, the closer the 601 has to be to the phone it is attempting to block. When attempting to secure a room assume the worst case. Determine which network signal is the strongest and do tests with a phone on that network to see if one or more units are required to cover the entire room.

Specifications

Detection

(E)GSM900:	880-915MHz
GSM1800:	1710-1785MHz
Detection time:	500ms typical, 1.4sec maximum
Threshold:	-82dBm typical

Blocking

(E)GSM900:	925-960MHz, plus guard band
GSM1800:	1805-1900MHz, plus guard band
Output power:	High 100mW (+20dBm) Low 25mW (+14dBm)
Range	10 – 20 metres typical (Range dependent on proximity to a base station) Transmitter feeds an internal omni-directional antenna
Spurious:	-110dBc/Hz at ± 5MHz
Duration	Network signals 10 seconds typical Calls 15 seconds typical Manual 10 minutes max. (battery power) Indefinite (external power)

Power

Internal:	2 x AA (LR6) cells, alkaline or NiMH
External:	4.5 – 10V DC at 250 mA max via 1.3mm jack (tip +ve)
Low battery LED	trips at 2.1V (1.05V per cell)
Standby time	170 hours with 2.5A h cells
Blocking time	10 hours total with 2.5AH cells

Note: When battery powered the unit turns off automatically after 12 hours

External

Connector	3.5mm stereo mini-jack
Indication	"Ring" goes from 0V to +3V, with a 1kΩ resistor in series, during transmission of blocking signals
Control	Ground "tip" to trigger blocking signal.

Limited to 10 minutes on internal power, indefinitely on external

Switches (battery compartment)

Position	Left	Centre	Right
Power Output	Low	High	High
Blocking Mode	Net + Calls	Net + Calls	Calls only

Physical

Size	120 x 64 x 22mm
Weight	130g with batteries
Case	ABS to UL94-HB(FV0)

Warning

The use of mobile phone blocking equipment is illegal or restricted many parts of the world. This product is sold or supplied on the basis that the end user is fully responsible for meeting such local requirements.

It is this manufacturer's policy to restrict supply of this equipment to Government, Military or Law Enforcement agencies

16. Sentor

PORTABLE INTRUDER DETECTION SENTOR

This product is used extensively by military and commercial entities throughout the world, providing both temporary and permanent intruder detection solutions.

A number of these units can be deployed to establish a 'virtual' perimeter, i.e. an invisible fence with each unit covering an 80m section.

There is no limit to the number of units deployed.

The unit can be deployed for up to four months with the only requirement being to monitor any alarm/ intruder messages. After this time, or on receiving a 'low battery' warning message, the unit's battery is recharged over an 8 to 10 hour period, the Sentor is then ready for the next four months deployment.

The message recording via a hand held microphone is completely user friendly, can accept any language with the ability, if used in short term deployment applications, to merely record the new location message.

For example, moving a unit to a new location would simply require the new location recording on the correct channel.

The Sentor 740 is specifically designed to be deployed by non technical personnel in a variety of environments of either permanent or temporary installations and has been allocated a NATO Stock Number. The system is activated by one switch.

We utilise precision optical mirrors within the Passive Infra-Red detection units, which enables false alarm rates caused by small animals to be minimised. Because the detectors are sensing temperature differences, as well as movement, they are unaffected by birds, since their plumage is the same temperature as ambient. There are many possible deployment scenarios for Sensor's portable intruder detection equipment ranging from perimeter to asset protection. All will provide the user with advanced early warning of intrusion.

Example of the Sentor protection pattern

Anyone who moves into the rectangle will be detected.

As few as two Sentors can be used to form a secure "bonded" square/rectangle.

Pictured within the above diagram is an RAF Hercules in Bosnia protected by Sentor units.

The system can be extended with Sensor's Guardpost product to provide a complete Intruder Detection/ Visual Verification Surveillance package.

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17. Stealthguard

PORTABLE INTRUDER DETECTION
D-Observer

A top of the range specialist covert system designed to be used by bodyguards, patrolling guards or military personnel for ultimate protection in any environment - yet anyone can use it. It's a power packed system built for fast deployment and expandable protection.

The D-Observer is a specialist version of the market leading Sentry Covert Detection System. Comprising 8 rugged, palm sized, high quality passive infra-red detectors. This system can be easily and quickly deployed from a briefcase, or body worn 'ammunition' style pouches.

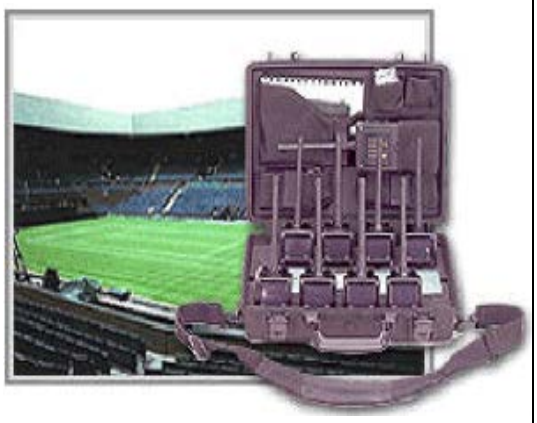
Universal fixings allow the detectors to be covertly positioned in virtually any environment, from woodland and undergrowth to jungle, desert and urban conditions.

Upon sensing a human intrusion into the protected zone, an alarm signal is transmitted from the detector to a hand held or belt worn control base station, which can be situated up to 1.5km away (depending on operating conditions), illuminating an LED indicator

With user-friendly controls and a simple alarm interface, each detector is identified individually with an additional audio alarm, via a covert earpiece, that spontaneously alerts the user to activity within the protected area.
The system can be expanded to incorporate up to 64 detectors, arranged in zones.
In addition, vibration sensors, smoke alarms, door contacts and personal panic attack alarms can all be ***controlled from the same hand held base station,*** making the D-Observer is the versatile answer to internal or external covert detection.
Typical uses for this system are for personnel

Features

- **Detection range 30 metres**
- **5 years regular detector head use with Lithium Batteries**
- **15 year shelf life**
- **Monitoring Unit 3 year battery life**
- **Heads incorporate universal mountings for mini tripods and bungee fasteners**
- **Monitoring Unit provides visual and audio alarm indications. Both can be adjusted and muted**
- **Audio alarm also through earpiece**
- **Detector heads transmit up to 1.5 kilometres line of sight - 300 metres in built up areas**
- **Waterproof up to IP66**
- **Supplied in crush-proof, waterproof carry case (43 x 34 x 11cm)**
- **Total weight of system is 3.5kg (plastic head version) or 6.2kg (metal head version) including case**



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18. FT Vision X

TECH HYDRO ROBOTICS
SECURITY PRODUCTS
LE VISION-X
MK5
Un colis abandonné intentionnellement par des terroristes, sur un lieu public tels que halls d'aéroports, galeries commerçantes, bus, trains, etc., peut exploser à tout moment, comme on a malheureusement déjà pu le constater dans beaucoup de grandes villes du monde. Sa manipulation est très dangereuse. Le Vision-X MK5 permet d'examiner le contenu du colis suspect sans aucune manipulation de celui-ci. Il se déploie sur place en moins d'une minute, et en pressant un seul bouton, le contenu du colis apparaît sur l'écran en temps réel. On peut donc très rapidement agir en fonction du résultat. Le Vision-X MK5 a été conçu avec l'aide et des services de déminage et de la police scientifique. Il bénéficie donc de l'expérience de professionnels confrontés quotidiennement à ce problème.
Système de radioscopie portable
pour vérifier tous bagages
et colis abandonnés ou suspects.
VISION-X
DANGER !!!
tech.hydro.robotics@wanadoo.fr

19. Pole Cam

ULTRACAM POLE CAMERA

A PORTABLE & MODULAR VIDEO SYSTEM

FEATURES

- COMPLETELY PORTABLE & MODULAR VIDEO INSPECTION / SEARCH KIT
- FLEX & STAY BATON—BEND THE CAMERA HEAD TO ANY DIRECTION
- BASIC KIT WITH ILLUMINATED COLOUR CAMERA—OPTIONAL CAMERAS INCLUDE LOW LIGHT COLOUR, INFRARED & THERMAL—ALL FULLY WATERPROOF
- ADD AN OPTIONAL TROLLEY & EXTENSION POLE TO CONVERT THE SYSTEM TO A MULTI DIRECTIONAL UNDER VEHICLE INSPECTION CAMERA
- ADD A 4.25 METRE TELESCOPIC POLE FOR LOOKING INTO UPPER FLOOR WINDOWS & OVER TRUCKS & CONTAINERS
- BUILT IN BATTERY RUNS FOR 2 HOURS—OPTIONAL D CELL PACK WILL RUN FOR 5 HOURS
- RUGGED CONSTRUCTION, EXCELLENT VIDEO PICTURE & OPTIONAL VIDEO TRANSMITTER MAKE IT IDEAL FOR INSPECTION IN COLLAPSED BUILDINGS & OTHER DISASTER SITUATIONS.

SPECIFICATIONS

SCREEN SIZE	4" DIAGONAL
AUDIO OUT	AMPLIFIED AUDIO OUT FOR HEADPHONE. LINE LEVEL OUT
VIDEO OUT	COMPOSITE, OPTIONAL CABLE CONVERTS TO RCA JACK
POWER INPUT	12V DC NOMINAL (14—10V) 15 WATT
INTERNAL BATTERY	RECHARGEABLE NIMH UP TO 2 HOURS RUN TIME
EXTERNAL BATTERY	8 'D' CELLS—UP TO 5 HOURS RUN TIME
CASE WEIGHT & DIMENSIONS	7KG, 53 X 40 X 45 CMS (BASIC KIT)
OPTIONAL VIDEO TRANSMITTER	WMT-4 ONLY, 2.4 MHZ (FCC PART 90), 4 CH STANDARD

BASIC KIT CONTENTS

- 4" COLOUR LCD MONITOR
- BATTERIES, CHARGER, COMPACT CCU WITH ADJUSTABLE POSITION MONITOR MOUNT
- 600 MM BATON WITH FLEX & STAY HEAD SECTION
- 38 MM DIAMETER COLOUR CAMERA HEAD WITH BUILT IN ILLUMINATION
- RUGGED WATERPROOF TRANSIT CASE

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20. FT Defender Robotic Vehicle

21. FTiViewer

TECHNICAL SPECIFICATION FOR T-iV THERMAL IMAGING VIEWER

System Characteristics

Lens	F1.0 optics , 75mm Germanium crystal with high efficiency anti scratch coating
IR Field of view	11° x 8°
Operating wavelength	8µm to 14µm
Resolution	320 x 240 pixels
NETD	Better than 100mk
Operating Duration	8-10 hours
Readiness time	10 seconds typical at 21°C, maximum 25 seconds
Detection range (man)	1000m
Detection range (vehicle)	2,5 to 5 kms
MTBF	> 20,000 hours (calculated)
Controls	On/Off Focus Video polarity Standby/covert mode Zoom (x2) Gain override

Environmental Characteristics

Sealing	IP 67 , Unit is completely waterproof, if dropped in water it will float
Operating temperatures	-20°C to + 50°C

Certification CE approved, NATO stock number will be allocated within the next few weeks.

Physical Characteristics

Dimensions (excluding rubber eyecup)	Length: 301mm Height: 101mm Width: 164mm
Weight:	< 1,6 kgs
Colour	Grey

Electrical Characteristics

Battery	Rechargeable Sony NP770 Lithium Ion
Tripod mount	Yes
TV video	PAL std (NTSC std on request)
Video output	Yes, Composite 1 V pk-pk
External Interface Connector	Yes, multiway- power in, video out, USB for image download

Display Characteristics

Type:	Dual LCD Biocular, no eyepiece adjustments required

System Presentation: Thermal imager, Hard transit case, Soft bag, 2 x batteries, charger, user manual(in English), cleaning kit.

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21. FTiViewer

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22. GSM XPZ MOBILE (1)

GSM – XPZ – HP
Technical Specifications

Overview

GSM – XPZ – HP

Designed as a tactical tool for law enforcement, Government agencies and the Military, the GSM-XP family of GSM active interception solutions have proven to be a global hit with proven success in the field.

We are proud now to provide preliminary specifications for its next generation solution. Based on commercial base-station technology this offers a quantum leap in mobile acquisition rate, higher transmit power, operational ranges and for the first time simultaneous operation on multiple networks and simultaneous servicing of multiple targets.

A range of products will be available targeted to provide an optimal solution for different mission scenarios. Key features include:

- Up to 500 milliwatts output power on 2 simultaneous channels
- Up to 2 simultaneous channels, allowing emulation of
  - 2 broadcast channels on one network
  - 2 broadcast channels on two different networks
- Dual band solutions covering 900/1800 or 850/1900 MHz
- Capability to service multiple targets – up to 7 targets per carrier
- 12vDC operation
- 8 hour mission battery capability
- Ruggedised carry-case
- Small discreet form factor to cover different operational scenarios

The HP model is designed for customers who wish to operate discreetly close to the target. Packaged into a small case, such as a briefcase, the system can be easily used in public places without alerting targets.

In addition the system will support multiple channels simultaneously to a maximum of 2 channels within the unit. The HP will be able to transmit up to 200mW in 2 channels

configured either as 900/1800 or 850/1900 variants. The antennas will be integrated with an option to add an external Power Pack to increase transmitted RF power.

22. GSM XPZ MOBILE (2)

Features

Generic Features for GSM-XPZ-HP system

- Ability to adjust BTS power to a maximum 200mW per channel
- Ability to transmit 2 GSM broadcast channels simultaneously
- Enhanced IMSI acquisition rate (theoretically to 60 registrations per BTS per second)
- Perform a Blind Call per GSM timeslot = 7 blind calls simultaneously per channel
- Up to 14 Simultaneous Blind Calls whilst IMSI Grabbing
- Ability to set CRo, CRH and T3212 Timer as per ETSI specifications
- Ability to survey spectrum using custom phone modules
- Display of SERVER & 6 neighbouring cell information to enable simple cell emulation
- Ability to adjust target mobile power once in a call to maximum 2W transmission
- Visual indication of RX power lev (mobile reporting BTS received signal strength)
- Advanced configuration of BTS for emulation of any network type
- Off-line mode for mission file viewing
- Powerful database search facility for quick target identification
- Remote system operation via secure wireless link

Control Options

To provide users with maximum flexibility a range of control options is available; direct Ethernet connection to the controlling laptop; wireless connection using a suitably enabled device e.g. OQO Mini Laptop. In this mode multiple users will be able to connect and view the following information over a secure connection:

- Target Identification – included as standard
- SMS Intercept
- Direction Finding support
- Service Denial
- Bubble mode

The operator will be able to adapt the Graphical User Interface (GUI) to display the key information. The GUI will build on the familiarity of the existing GSM-XP to allow both novice and experienced users the control to easily simultaneously operate 2 base stations.

To enhance security, mission data is stored on an external memory device. This can be easily switched between multiple systems, or used to examine mission data offline on a separate PC or on the GSM-XPZ itself. This also allows for protection of mission data, should the system have to be loaned to other organisations or returned to MMI. All events as per current GSM-XP operation, will be time stamped and logged in a mission file along with intercepted SMS data. To maintain the integrity of the data the mission files cannot be edited without using MMI software.

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22. GSM XPZ MOBILE (3)

Operational Modes

Research & Release	Allows phones from up to 2 networks to simultaneously attach to the GSM-XPZ enabling their IMSI / IMEI to be logged. Once logged, they are released back to the real network - the most covert operational mode.
Research & Lock	Locks selected target phones to the GSM-XP BTS
Ping Mode	Clones the selected BTS exactly including LAC. A much quicker and more efficient way of capturing mobiles as it removes the overheads associated with a location update - the least covert operational mode.
Bubble Mode	Unless otherwise specified all phones registering to the system will be locked to the system thus creating a bubble of phones restricted from accessing the real networks.
Service Denial to all Hostiles	Sends a service denial message to all phones, potential hostiles, that prevents them from rejoining a real network.

Target Mobile Actions

Overt Call	Allows operator to call a target phone and optionally converse.
Blind Call	Covert (silent) call to a target phone. Used in conjunction with directional finding equipment.
Send SMS	Allows operator to send SMS to a target phone.
SIM Swap Indication	Shows indication of SIM swap.
Make Target	Allows operator to make a phone a target.
Invalidate Target	Allows operator to deny service to a selected target.
Make Reject	Allows operator to reject selected phones from the GSM-XPZ to prevent any interference by the system.
Show Target History	Shows all recorded activity by the target phone.

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22. GSM XPZ MOBILE (4)

Technical Specifications

The specification will vary depending upon the model purchased however the key specifications are presented below:

Radio Interface

Transmit/Receive Frequencies:	Euro Variant: E-GSM, GSM, DCS US Variant: 850 , PCS
Channel Frequency:	200 KHz
Output Power:	200mW per band
Receive Sensitivity:	>-95dBm (RAKE receiver).

GSM/GPRS Functionality

Channel Capability:	
TS0	FCCH, SCH, BCCH, CCCH, SDCCH/4, SACCH/C4 TCH/F+FCCH/F+SACCH/TF
TS1-7	SDCCH/8, SACCH/C8 TCH/F+FCCH/F+SACCH/TF
Call Control Capabilities:	BS Originated Call (Covert or Alerting), MS Originated Call (BS Terminated), MS Camp on, MS Camp off, BS Call Disconnect, MS Call Disconnect
Hopping:	No
Electrical MMI:	Ethernet
MS Power Level Control:	GSM900; 5 to 19, GSM1800; 0 to 13.
SACCH MEAS Results:	RXLEV, Timing Advance.
SMS Point-to-Point:	Mobile Originated, BTS Originated

General Specifications

Size: HP	70mm (H) x 280mm (W) x 290mm (D) 2.76" (H) x 11.03" (W) x 11.43" (D)
Weight:	< 4.5 Kg (10bs)
Operating Temperature:	-5°C to +45°C (23°F to 113 °F)
Storage Temperature:	-10°C to +70°C (14°F to 158 °F)

Power Consumption

GSM-XPZ -HP	40W

Power Supply

GSM-XPZ -HP	2 x Li-Ion Batteries (300Wh approx 8 hrs) or 12 Vdc input

Interface Connectors:

GSM-XPZ-HP	In-built 900/1800MHz or 850/1900MHz Omni-directional antennas. Data Interface via Ethernet (10/100 Base T) Secure Wireless Access Point

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23. WATER PUMP

TECHNICAL SPECIFICATIONS FOR 8HP FLOATING MOTOR PUMP

PUMP

- **Maximum flow : 1100 litres per minute**
- **Maximum pressure 4,3 bar**
- **Start up time 3 seconds**
- **Priming: self priming**
- **Construction: Light aluminium**
- **No risk from heavily polluted water**
- **No risk if pump runs out of water**
- **Exit port with DSP DN65 adaptor**

MOTOR

- **Manufactured by Briggs and Stratton**
- **Power 6 kw**
- **Displacement 310 cc3**
- **Air cooled**
- **Manual start**
- **Lead free petrol**
- **Tank capacity 5 litres**
- **Two hours running time on full power**
- **Noise level at full power 80 db**

A simple and efficient way of pumping water out of flooded areas to help the population and the rescue services. Simple to operate, start up and throw it into the water this unique product is capable of pumping water over several metres of reasonably level ground. Quality guaranteed : Made in the EC.

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23. WATER PUMP

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24. SISTEMA DE GANCHOS Y CUERDAS

901	150m reel, with white 10mm line	(1 off)
902	Webbing sling, 50mm wide x 2m lg, eyes each end, rated 2000kg	(2 off)
903	Webbing sling, 50mm wide x 6m lg eyes each end, rated 2000kg	(2 off)
904	Round sling, 1m diameter, rated 1000kg	(2 off)
905	Round sling, 2m diameter, rated 1000kg	(2 off)
906	Round sling, 4m diameter, rated 1000kg	(2 off)
907	Stake, 300mm lg	(2 off)
908	Stake, 500mm lg	(2 off)
909	Stake, 1000mm lg	(2 off)
910	D shaped shackle, 32mm x 64mm	(4 off)
911	Snatch block, 2680kg rating	(4 off)
912	120mm wide mouth hook, with eye	(2 off)
913	Canvas case with fitted pockets	(1 off)

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